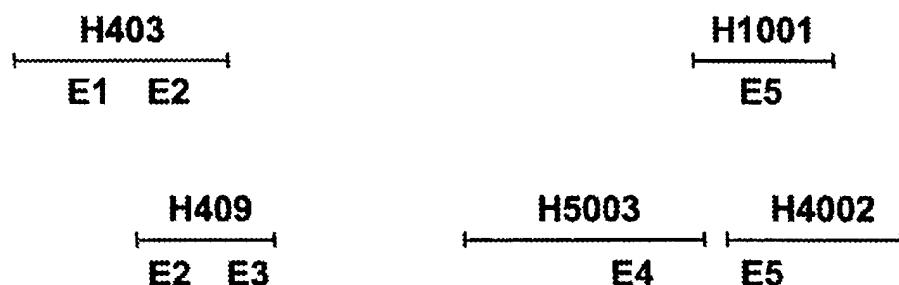


U.S. Patent Application No. 08/852,666
Inventors: CHADA, Kiran et al.
Title: HMGI Proteins in Cancer and Obesity



A.



B.

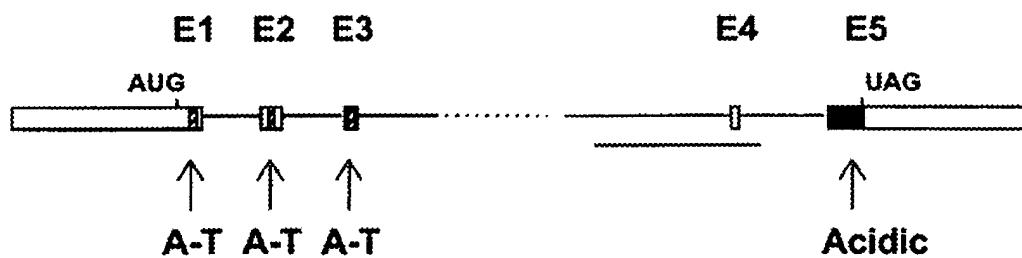


Fig. 1



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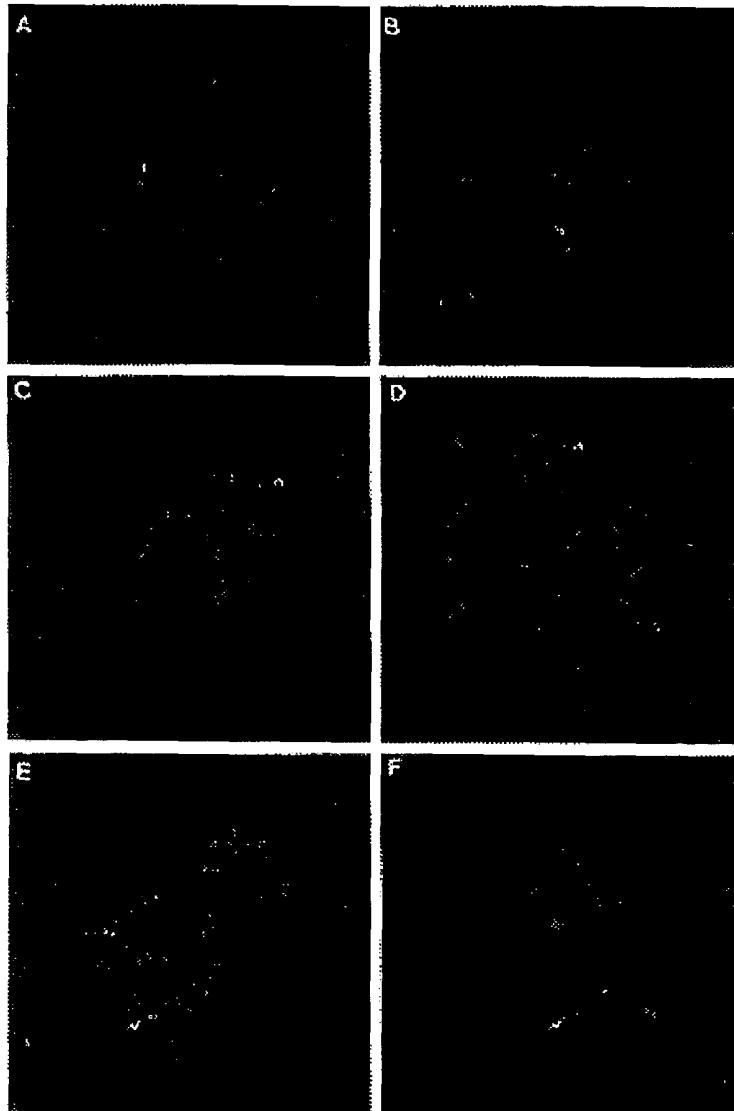


Fig. 2

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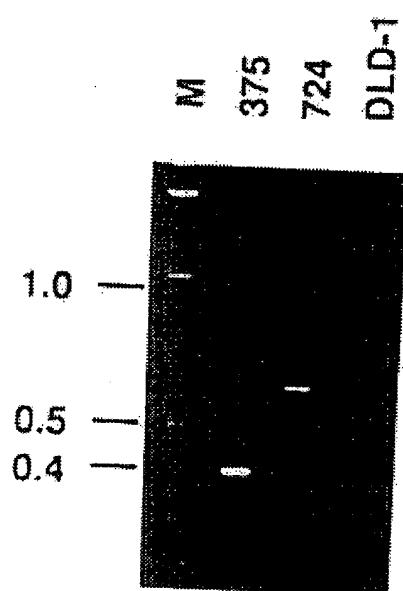
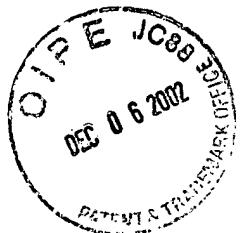


Fig. 3

U.S. Patent Application No. 08/852,666
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Title: HMGI Proteins in Cancer and Obesity



HMGI-C	CCA AGA GGC AGA CCT AGG AAA TGG	Codon: CCA CAA CAA GTC GTT	SEQ ID NO. 1
	P R G R P R K W	P Q Q V V	SEQ ID NO. 2
fusion sites			
t(3;12)	CCA AGA GGC AGA CCT AGG AAA TGG	AAT ACT CTG GAG CAG	SEQ ID NO. 3
	P R G R P R K W	N T L E Q	SEQ ID NO. 4
t(12;15)	CCA AGA GGC AGA CCT AGG AAA TGG	CCC GGG CTC CAG AAG	SEQ ID NO. 5
	P R G R P R K W	P G L Q K	SEQ ID NO. 6

Fig. 4



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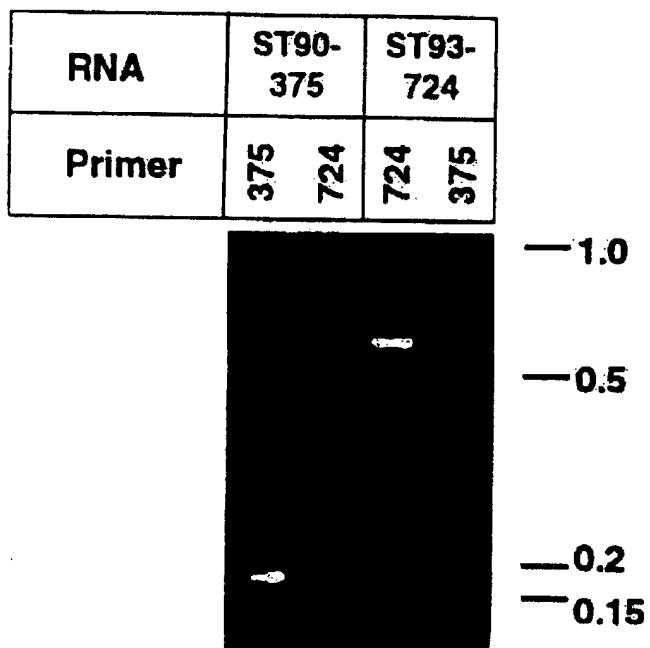


Fig. 5



U.S. Patent Application No. 08/852,666
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A.

Chr. 3: 1	QCNVCSKPI. [x9] .. KAYHPHCFTCVMCHRSL. [x11]. LIHCIEDF	SEQ	ID	NO.	7
Zyxin: 2	KCSVCKQTI. [x9] .. NSYHPQCFTCVMCHTPL. [x11]. QPHCVDDY	SEQ	ID	NO.	8
Ap: 1	DCSGCGRQI. [x10] . KRWHASCLKCYACRQPL. [x11]. NIYCKNDY	SEQ	ID	NO.	9
Lh2: 1	LCAGGGKI. [x10] . KQWHMRCLKCCEKLN. [x11]. SIYCKEDY	SEQ	ID	NO.	10
Lin11: 1	ECAACAQPI. [x10] . KCWHQSCLRCCDCRAPM. [x9] .. LILCKTDF	SEQ	ID	NO.	11
RBTN-1: 1	GCAGCNRKI. [x10] . KYWHEDCLKCACCDCR. [x12]. LILCRRDY	SEQ	ID	NO.	12

Chr. 3: 2	RCSVCKEPI. [x15]. SRFHVHCYRCEDCGGLL. [x13]. HILCKTCN	SEQ	ID NO.	13
Zyxin: 3	RCSVCKEPI. [x16]. KNFHMKCYKCEDCGRPL. [x14]. HVLCMKCH	SEQ	ID NO.	14
Ap: 2	RCSRCLASI. [x11]. LVFHVNCFCCTVCH.PL. [x11]. LIYCRTHY	SEQ	ID NO.	15
Lh2: 2	RCARCHLGI. [x11]. LVYHNLCFTCTTCN.ML. [x11]. LVYCRLHF	SEQ	ID NO.	16
Lin11: 2	RCAGCDGKL. [x11]. KVFHIRCFQCSVCQRLL. [x12]. RFVCQSDF	SEQ	ID NO.	17
RBTN-1: 2	NCAACSKLI. [x11]. NVYHLDCAFQLCNQRF. [x12]. IL.CQMDY	SEQ	ID NO.	18

Consensus

↑ ↑ ↑ ↑ ↑ ↑
 CxxC.... x16-21.... HxxCxxCxxC.... x16-21.... CxxH
 | |
 SEQ ID NO. 19 SEQ ID NO. 20 SEQ ID NO. 21
 |
 C
 D

B.

Chr. 15 EEEEEE LNTERRSSAGGGWRGVQPLGS PTPGEDHRPIPSASGFPSI

SEQ ID NO. 22

Fig. 6

U.S. Patent Application No. 08/852,666
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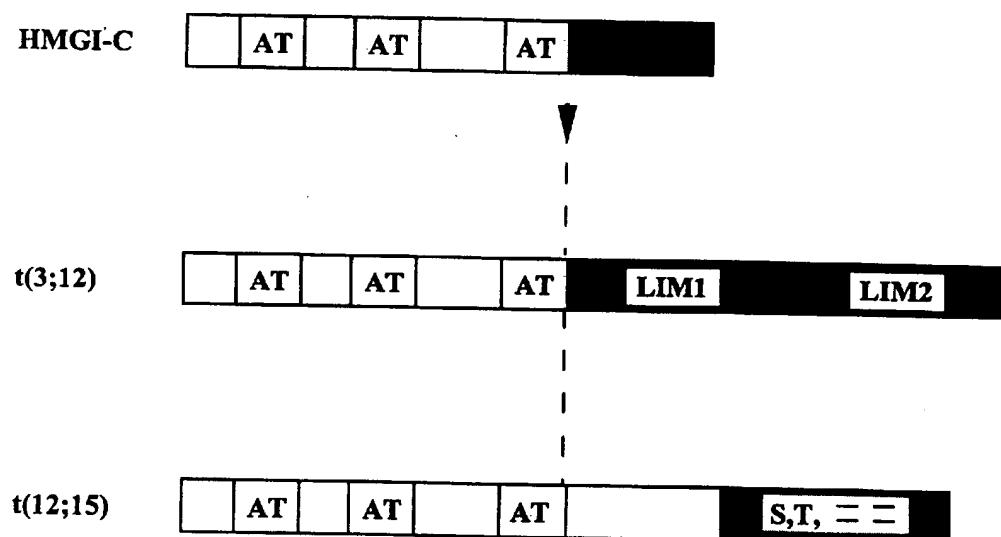


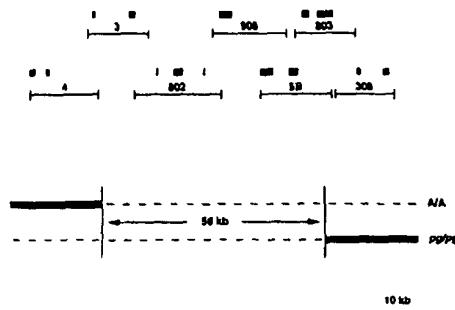
Fig. 7



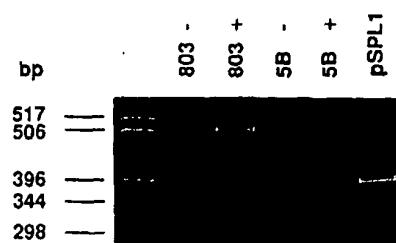
U.S. Patent Application No. 08/852,666
Inventors: CHADA, Kiran et al.
Title: HMGI Proteins in Cancer and Obesity

A.

PYGMY LOCUS



B.



C.

HIV-ltr ←

1 TCTATCAAAGCAGGCCAACCTGTGAGCCCTCTCTTAAGAGACCCAGAGGAAGACCCAAA
AAGCAGCAGCAAGAGCCAACCTGTGAGCCCTCTCTTAAGAGACCCAGAGGAAGACCCAAA

61 GGCAGCAAAACAAGAGGCCCTCTAAAGCAGCCCAGAAGAAAGCAGAGACCATTGGAGAA
GGCAGCAAAACAAGAGGCCCTCTAAAGCAGCCCAGAAGAAAGCAGAGACCATTGGAGAA

HIV-ltr →

121 AACGGCCAAGAGGCAGACCTAGGAAATGGACCCACCTCCCCA 803
AAACGGCCAAGAGGCAGACCTAGGAAATGGCCACAACAAGTC Mouse HMG I-C

D.

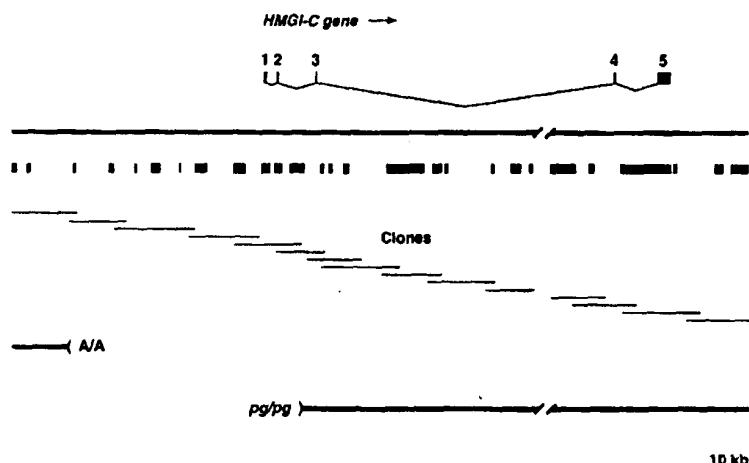


Fig. 8

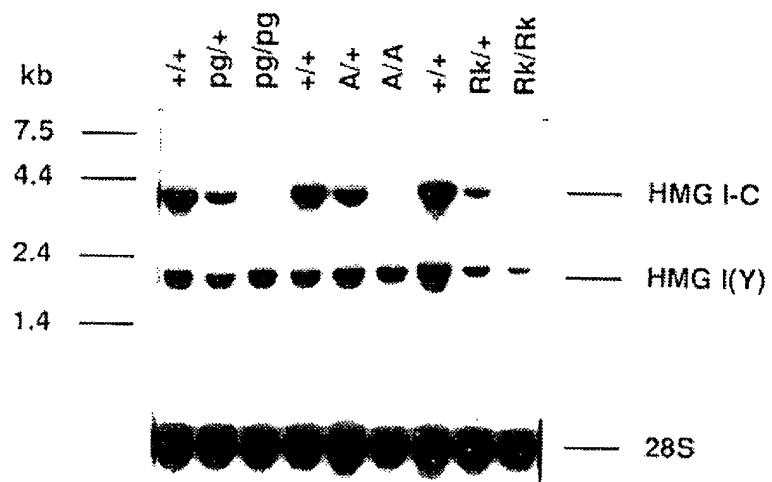


Fig. 9



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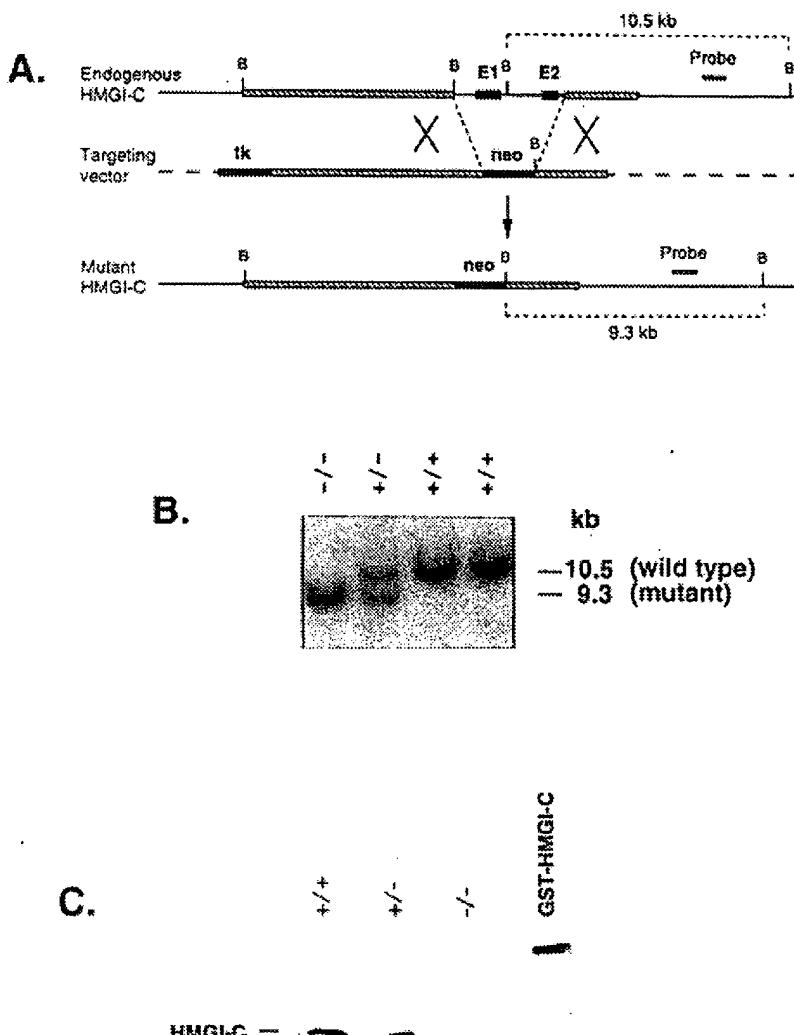
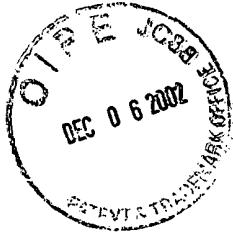


Fig. 10



U.S. Patent Application No. 08/852,666
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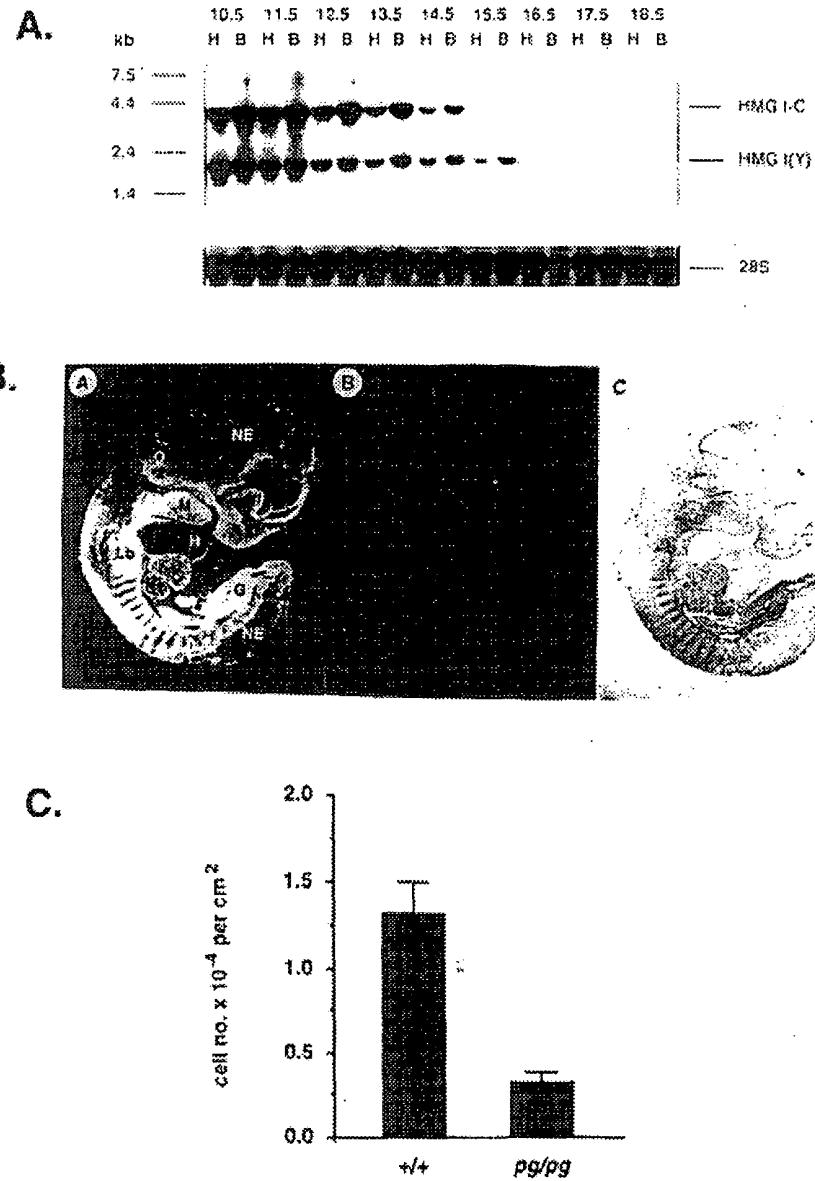


Fig. 11



U.S. Patent Application No. 08/852,666
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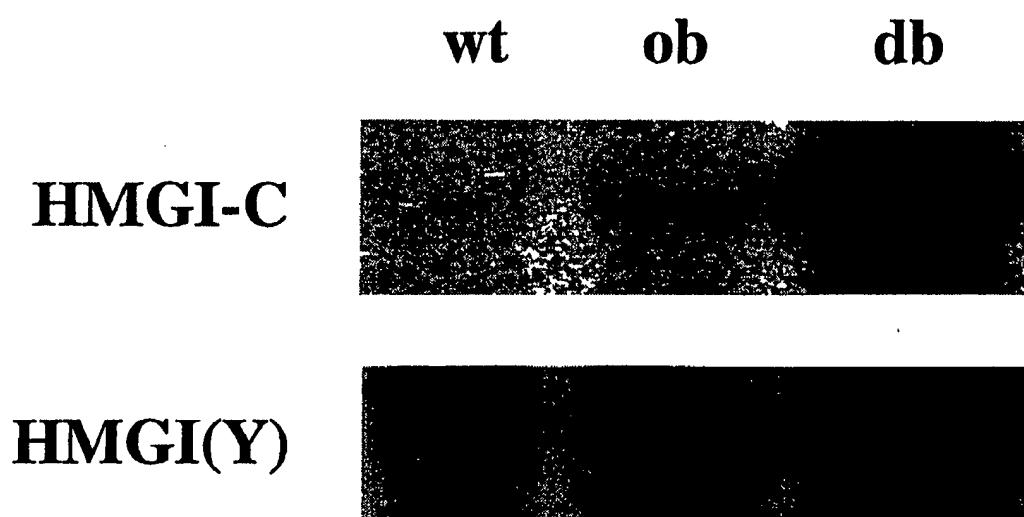


Fig. 12



U.S. Patent Application No. 08/852,666
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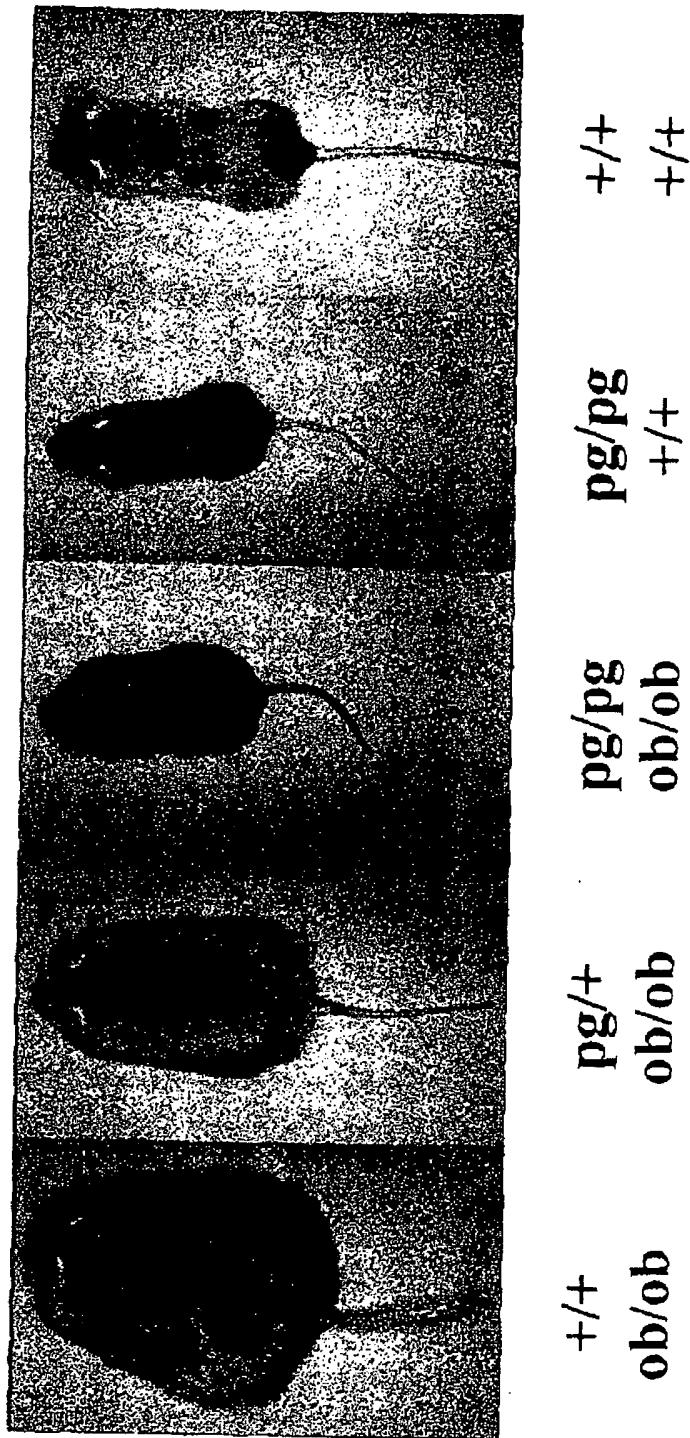
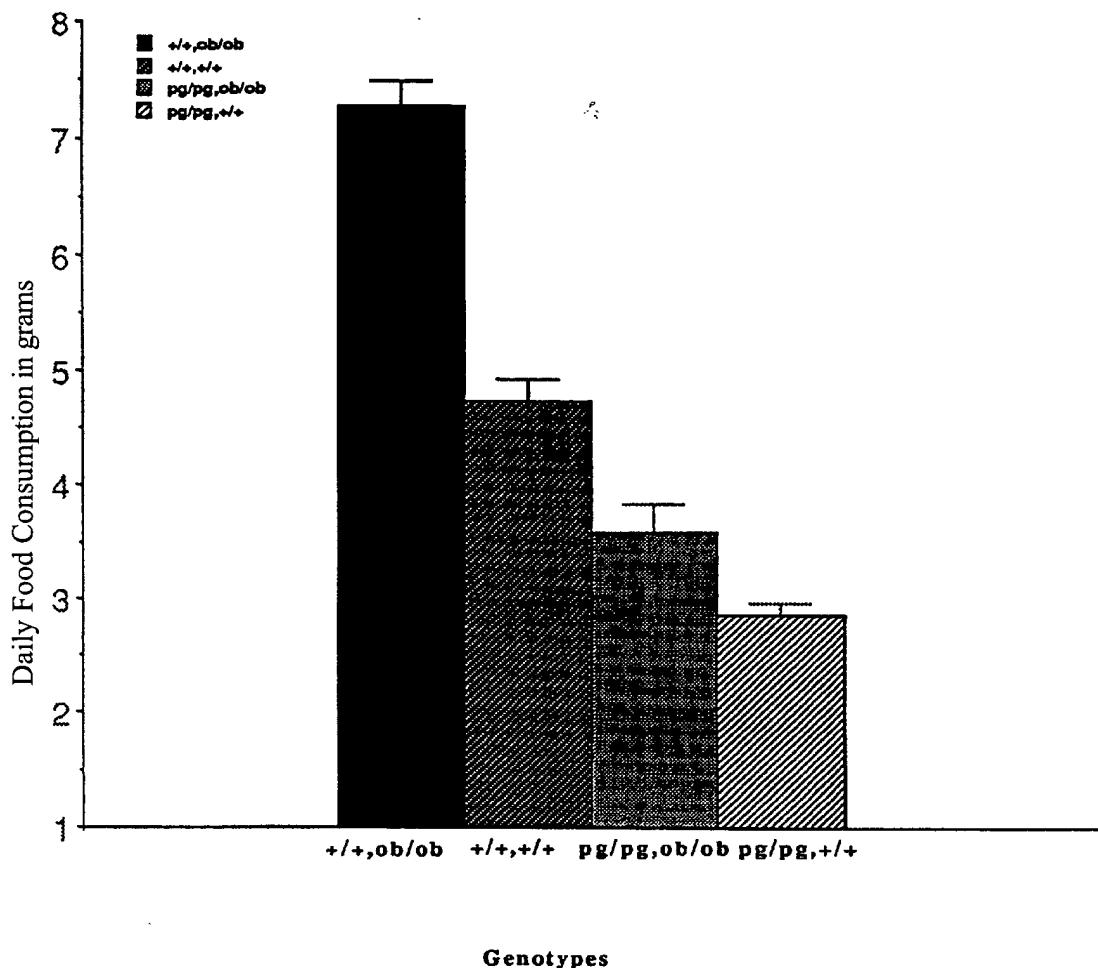


Fig. 13



Effects of genotype on food consumption.
Daily food consumption=(wt. of food at 0 hrs)-[(wt. of food at 24 hrs)+(food wasted)]

Fig. 14